

WORK PLAN
GREAT LAKES NAVAL TRAINING CENTER
REMODEL WILLOW GLEN GOLF COURSE
GREAT LAKES, ILLINOIS

AUGUST 1998

WORK PLAN
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REMODEL WILLOW GLEN GOLF COURSE
GREAT LAKES, ILLINOIS

FOR

U.S. NAVY
GREAT LAKES NAVAL TRAINING CENTER
GREAT LAKES, ILLINOIS

SUBMITTED

AUGUST 1998

PREPARED BY

GREAT LAKES OFFICES OF TOLTEST, INC.
1915 N. 12th Street
Toledo, Ohio 43624
(419) 241-7175
Great Lakes Office (847) 625-8083



Founded in 1927

Toledo, Ohio • Detroit, Michigan • Monroe, Michigan • Pittsburgh, Pennsylvania

August, 1998

Mr. J.P. Messier
U.S. Navy
Building 1A
Great Lakes Naval Training Center
Great Lakes, IL 60088

WORK Plan
Great Lakes Naval Training Center
Willow Glen Golf Course
Great Lakes, Illinois

Dear Mr. Messier:

TolTest, Inc. is submitting this Work Plan for the Willow Glen Course Project at the Great Lakes Naval Training Center in Great Lakes, Illinois for your review and comments.

Should you need any additional information, please feel free to contact me at (847) 625-8083

Sincerely,

TolTest, Inc.

A handwritten signature in dark ink, appearing to read 'Gary L. Vogelsong'. The signature is fluid and cursive, with the first name 'Gary' being particularly prominent.

Gary L. Vogelsong
Program Manager

WORK PLAN Table of Contents

Page No.

WILLOW GLEN GOLF COURSE RENOVATION WORK PLAN SUMMARY	1
SCOPE OF WORK	
HOLE #1	
CONSTRUCTION OF NEW TEE BOXES	3
CONSTRUCTION OF NEW GREEN COMPLEX	3
INSTALL FAIRWAY DRAINAGE SYSTEM	3
CONSTRUCT NEW FAIRWAY BUNKERS	3
CONSTRUCT NEW FAIRWAY MOUNDS	3
REMOVE EXISTING GREEN	4
REMOVE EXISTING FAIRWAY BUNKERS	4
RENOVATE EXISTING PRACTICE GREEN	4
HOLE #2	
CONSTRUCTION OF NEW TEE BOXES	5
CONSTRUCTION OF NEW GREEN COMPLEX	5
INSTALL FAIRWAY DRAINAGE SYSTEM	5
CONSTRUCT NEW FAIRWAY MOUNDS.	5
REMOVE EXISTING FAIRWAY BUNKERS	5
HOLE #3	
CONSTRUCTION OF NEW TEE BOX	6
CONSTRUCTION OF NEW GREEN COMPLEX	6
CONSTRUCT FAIRWAY EXTENSION	6
REMOVE EXISTING GREEN	6
RELOCATE TREE	6
HOLE #4	
CONSTRUCTION OF NEW TEE BOXES	7
CONSTRUCT NEW FAIRWAY BUNKERS	7
CONSTRUCTION OF NEW GREEN COMPLEX MOUNDING	7
REMOVE EXISTING FAIRWAY BUNKERS	7
HOLE #5	
CONSTRUCTION OF NEW TEE BOXE	8
CONSTRUCTION OF NEW GREEN COMPLEX	8
CONSTRUCT NEW FAIRWAY BUNKER	8
CONSTRUCT NEW FAIRWAY MOUNDS	8
REMOVE EXISTING GREEN	8
RENOVATE FAIRWAY	9

WORK PLAN Table of Contents (continued)

HOLE #6	
CONSTRUCTION OF NEW TEE BOXES	10
CONSTRUCTION OF NEW GREEN COMPLEX	10
CONSTRUCT NEW FAIRWAY BUNKERS	10
CONSTRUCT NEW FAIRWAY MOUNDS	10
REMOVE EXISTING GREEN	10
RENOVATE FAIRWAY	11
 HOLE #7	
CONSTRUCTION OF NEW TEE BOXE	12
CONSTRUCTION OF NEW GREEN COMPLEX	12
CONSTRUCT NEW FAIRWAY BUNKER	12
CONSTRUCT NEW FAIRWAY MOUNDS	12
RENOVATE FAIRWAY	12
 HOLE #8	
CONSTRUCTION OF NEW TEE BOX	14
CONSTRUCTION OF NEW GREEN COMPLEX	14
CONSTRUCT NEW FAIRWAY BUNKERS	14
CONSTRUCT NEW FAIRWAY MOUNDS	14
RENOVATE FAIRWAY	14
REMOVE EXISTING GREEN	15
 HOLE #9	
CONSTRUCTION OF NEW TEE BOXES	16
CONSTRUCTION OF NEW GREEN COMPLEX	16
CONSTRUCT NEW FAIRWAY BUNKER	16
CONSTRUCT NEW FAIRWAY MOUNDS	16
 RELOCATE POWER LINE	17
 REMOVE EXISTING CART PATHS	17
 DREDGE AND MODIFY TWO EXISTING POND, CONSTRUCT TWO NEW PONDS	17
 DRIVING RANGE BERMS	18
 HOLE #8 to HOLE #9 SERVICE ROAD	18
 CART PATHS, PARKING AREAS, and CART STAGING AREAS	18
 IRRIGATION SUMMARY	18
 SITE RESTORATION	19
 SCOPE ADJUSTMENTS	19

WILLOW GLEN GOLF COURSE RENOVATION WORK PLAN SUMMARY

This work plan includes the renovation of holes # 1 through # 9 at the Great Lakes Naval Training Center's Willow Glen Golf Course. The project site is located on the north side of Buckley Road (Rte 137) between Green Bay Road (Rte 131) and Skokie Highway (Rte 41). The renovation is being performed under the Navy's Environmental Job Order Contract (EJOC). TolTest, Inc. of Toledo, OH is the prime contractor.

TolTest, Inc. has contracted with the following companies to perform the renovation work at the golf course: Koelper Excavating - golf course construction; Paul Loague - golf course design; Bakley Brothers - drainage system; Midwest Irrigation- irrigation system, Glen Nissan Excavating - dredging/excavating of ponds and placing/sculpturing mounds; Art Nissan & Sons - asphalt paving of the cart paths and the parking lot, Shoreline Marine Contractors - construction of retaining wall at # 7 pond.

Paul Loague, golf course architect, has established construction designs and a scope of work for the front nine (9) renovation of Willow Glen Golf Course. The general scope of work is as follows:

- Construct new tee boxes
- Install green drainage systems
- Install fairway drainage systems
- Construct new green complexes
- Construct new fairway bunkers
- Remove existing greens
- Construct new fairway mounds
- Remove existing fairway bunkers
- Remove existing practice green
- Construct fairway extension
- Remove existing cart paths
- Relocate/remove tree(s)
- Seed/sod areas of construction and disturbed areas
- Dredge and modify two existing ponds
- Construct two new ponds
- Relocate power line (to pump house)
- Install electrical conduit and 12/3 wire from clubhouse to #9 pond
- Construct new cart paths, cart staging area, and parking lot expansion

Please note that the following "Scope of Work" references specific design drawings created as part of this project. References will be made to specific pages that depict related aspects of scope.

Soil will be imported for the various tasks associated with the project. The clayey/loamy soil and topsoil will be imported from various Great Lakes Naval Training Center sources and off-site sources. This soil will serve as a base and top-dress soils for the new tee boxes, fairway mounds, and greens.

Once tee boxes, bunkers, and greens complexes have been established and dressed the associated collars will be sodded. Green complex perimeter mounding will be

sodded from green side of mounding to top of mound. Remaining construction areas, inclusive of greens putting surfaces, tee box playing surfaces, backside of green complex mounding, will be appropriately seeded.

SCOPE OF WORK

HOLE #1

(Sheet 9 of drawings)

Approximately 50,000 CY of soil will be utilized for the various tasks associated with the #1 complex.

CONSTRUCTION OF NEW TEE BOXES

(Sheet 18 of drawings)

Two (2) new tee boxes will be constructed.

Once the base soil layer is placed, compacted, and graded for the new tee boxes, a layer of topsoil/pond dredgings mix will be placed as a top dressing. Appropriate sod and grass seed will be placed for the new tee box areas.

CONSTRUCTION OF NEW GREEN COMPLEX

(Sheet 17 of drawings)

A new green complex will be constructed as part of the Hole #1 scope of work. The green complex will include sand traps, mounding, drainage and irrigation systems, and the green itself.

Once the base soil layer is placed, compacted, and graded for the new green complex, a special layering of pea gravel, sand, and greens mix will be placed. Appropriate sod and grass seed will then be placed on all new and disturbed areas.

INSTALL FAIRWAY DRAINAGE SYSTEMS

(Sheet 19 of drawings)

A new fairway drainage system will be installed where the natural soil drainage/slope is insufficient to remove excess water from the golf course.

CONSTRUCT NEW FAIRWAY BUNKERS

(Sheet 17 of drawings)

Two (2) new fairway bunkers will be constructed.

Once the base soil layer is placed, compacted and graded, a minimum of six (6) inches of sand will be placed in the fairway bunkers. The bunker collars will be appropriately sodded and other areas disturbed by construction activities will be dressed and appropriately seeded as required.

CONSTRUCT NEW FAIRWAY MOUNDS

New fairway mounds will be constructed as detailed in the golf course designs.

Once the base soil has been placed, compacted, and graded, topsoil/pond sludge will be placed as an upper layer. Appropriate grass seed will then be placed.

REMOVE EXISTING GREEN

The existing green will no longer be utilized and will be bulldozed. Once the area has been re-graded, appropriate grass seed will be applied to the area. Sod will also be used for part of the area.

REMOVE EXISTING FAIRWAY BUNKERS

Three (3) existing fairway bunkers that will no longer be utilized and will be bulldozed. Once the area has been re-graded, the area will be appropriately seeded to promote fast growth.

RENOVATE EXISTING PRACTICE GREEN

The existing practice green will be modified and renovated. This area will be re-graded, drainage tile, and new irrigation will be installed. The practice green collar will be sodded. The putting surface and adjacent areas disturbed during construction will be appropriately seeded to promote fast growth.

HOLE #2

(Sheet 10 of drawings)

Approximately 50,000 CY of soil will be utilized for the various tasks associated with the #2 complex.

CONSTRUCTION OF NEW TEE BOXES

(Sheet 18 of drawings)

Three (3) new tee boxes will be constructed.

Once the base soil layer is placed, compacted, and graded for the new tee boxes, a layer of topsoil/pond dredgings mix will be placed as a top dressing. Appropriate sod and grass seed will be placed for the new tee box areas.

CONSTRUCTION OF NEW GREEN COMPLEX

(Sheet 17 of drawings)

A new green complex will be constructed as part of the Hole #2 scope of work. The green complex will include sand traps, mounding, drainage and irrigation systems, and the green itself.

Once the base soil layer is placed, compacted, and graded for the new green complex, a special layering of pea gravel, sand, and greens mix will be placed. Appropriate sod and grass seed will then be placed on all new and disturbed areas.

INSTALL FAIRWAY DRAINAGE SYSTEMS

(Sheet 19 of drawings)

A new fairway drainage system will be installed where the natural soil drainage/slope is insufficient to remove excess water from the golf course.

CONSTRUCT NEW FAIRWAY MOUNDS

New fairway mounds will be constructed as detailed in the golf course designs.

Once the base soil has been placed, compacted, and graded, topsoil/pond sludge mix will be placed as a top dress. Appropriate grass seed will then be placed.

REMOVE EXISTING FAIRWAY BUNKERS

Two existing fairway bunkers that will no longer be utilized will be bulldozed. Once the area has been re-graded, the area will be appropriately seeded to promote fast growth.

HOLE #3

(Sheet 11 of drawings)

Approximately 50,000 CY of soil will be utilized for the various tasks associated with the #3 complex.

CONSTRUCTION OF NEW TEE BOX

(Sheet 18 of drawings)

One (1) new tee box will be constructed.

Once the base soil layer is placed, compacted, and graded for the new tee box, a layer of topsoil/pond dredgings mix will be placed as a top dressing. Appropriate sod and grass seed will be placed for the new tee box area.

CONSTRUCTION OF NEW GREEN COMPLEX

(Sheet 17 of drawings)

A new green complex will be constructed as part of the Hole #3 scope of work. The green complex will include sand traps, mounding, drainage and irrigation systems, and the green itself.

Once the base soil layer is placed, compacted, and graded for the new green complex, a special layering of pea gravel, sand, and greens mix will be placed. Appropriate sod and grass seed will then be placed on all new and disturbed areas.

CONSTRUCT FAIRWAY EXTENSION

(Sheet 17 of drawings)

The fairway approach to #3 hole will be extended. Soil will be imported and placed as required to conform to established golf course design. Once the base soil layer is placed, compacted and graded, topsoil/pond sludge mix will be placed as a top dressing. Appropriate seed will then be placed to promote fast growth.

REMOVE EXISTING GREEN

The existing green will no longer be utilized and will be bulldozed. Once the area has been re-graded, appropriate seed will be applied to the area to promote fast growth of the grass seed. Sod will also be used for part of the area.

RELOCATE TREE

The Linden tree on hole # 3 will be relocated so it is not in the way of play.

HOLE #4

Approximately 15,000 CY of soil will be utilized for the various tasks associated with the #4 complex.

CONSTRUCTION OF NEW TEE BOXES

(Sheet 18 of drawings)

Three (3) new tee boxes will be constructed.

Once the base soil layer is placed, compacted, and graded for the new tee boxes, a layer of topsoil/pond dredgings mix will be placed as a top dressing. Appropriate sod and grass seed will be placed for the new tee box areas.

CONSTRUCT NEW FAIRWAY BUNKERS

(Sheet 17 of drawings)

Three (3) new fairway bunkers will be constructed.

Once the base soil layer is placed, compacted and graded, a minimum of six (6) inches of sand will be placed in the fairway bunkers. The bunker collars will be appropriately sodded and other areas disturbed by construction activities will be dressed and appropriately seeded as required.

CONSTRUCTION OF NEW GREEN COMPLEX MOUNDING

(Sheet 17 of drawings)

New mounding will be constructed as part of the existing green complex.

Once the base soil has been placed, compacted, and graded, topsoil/pond sludge mix will be placed as a top dress layer. Appropriate sod and grass seed will then be placed.

Dressing of the green complex bunkers will be completed as part of the #4 green tasking. The bunkers' edges will be dressed and sand levels restored to design requirements.

REMOVE EXISTING FAIRWAY BUNKERS

Three (3) existing fairway bunkers no longer being utilized will be bulldozed. Once the area has been re-graded, the area will be appropriately seeded to promote fast growth of the grass seed.

HOLE #5

(Sheet 12 of drawings)

Approximately 50,000 CY of soil will be utilized for the various tasks associated with the #5 complex.

CONSTRUCTION OF NEW TEE BOX

(Sheet 18 of drawings)

One (1) new tee box will be constructed.

Once the base soil layer is placed, compacted, and graded for the new tee box, a layer of topsoil/pond dredgings mix will be placed as a top dressing. Appropriate sod and grass seed will be placed for the new tee box area.

CONSTRUCTION OF NEW GREEN COMPLEX

(Sheet 17 of drawings)

A new green complex will be constructed as part of the Hole #5 scope of work. The green complex will include sand traps, mounding, drainage and irrigation systems, and the green itself.

Once the base soil layer is placed, compacted, and graded for the new green complex, a special layering of pea gravel, sand, and greens mix will be placed. Appropriate sod and grass seed will then be placed on all new and disturbed areas.

CONSTRUCT NEW FAIRWAY BUNKER

(Sheet 17 of drawings)

One (1) new fairway bunker will be constructed.

Once the base soil layer is placed, compacted and graded, a minimum of six (6) inches of sand will be placed in the fairway bunker. The bunker collar will be appropriately sodded and other areas disturbed by construction activities will be dressed and appropriately seeded as required.

CONSTRUCT NEW FAIRWAY MOUNDS

New fairway mounds will be constructed as detailed in the golf course designs.

Once the base soil has been placed, compacted, and graded, topsoil/pond sludge mix will be placed as a top dress. Appropriate grass seed will then be placed.

REMOVE EXISTING GREEN

The existing green will no longer be utilized and will be bulldozed. Once the area has been re-graded, appropriate seed will be applied to the area to promote fast growth of the grass seed. Sod will also be used for part of the area.

RENOVATE FAIRWAY

(Sheet 12 of drawings)

The fairway approach to #5 hole will be re-graded to the golf course design requirements. Soil will be imported and placed as required to conform to the established golf course design. Once the base soil layer is placed, compacted and graded, topsoil/pond sludge mix will be placed as a top dressing. Appropriate seed will then be placed to promote fast growth.

HOLE #6

(Sheet 13 of drawings)

Approximately 50,000 CY of soil will be utilized for the various tasks associated with the #6 complex.

CONSTRUCTION OF NEW TEE BOXES

(Sheet 18 of drawings)

Three (3) new tee boxes will be constructed.

Once the base soil layer is placed, compacted, and graded for the new tee boxes, a layer of topsoil/pond dredgings mix will be placed as a top dressing. Appropriate sod and grass seed will be placed for the new tee box areas.

CONSTRUCTION OF NEW GREEN COMPLEX

(Sheet 17 of drawings)

A new green complex will be constructed as part of the Hole #6 scope of work. The green complex will include sand traps, mounding, drainage and irrigation systems, and the green itself.

Once the base soil layer is placed, compacted, and graded for the new green complex, a special layering of pea gravel, sand, and greens mix will be placed. Appropriate sod and grass seed will then be placed on all new and disturbed areas.

CONSTRUCT NEW FAIRWAY BUNKERS

(Sheet 17 of drawings)

Two (2) new fairway bunkers will be constructed.

Once the base soil layer is placed, compacted and graded, a minimum of six (6) inches of sand will be placed in the fairway bunkers. The bunker collars will be appropriately sodded and other areas disturbed by construction activities will be dressed and appropriately seeded as required.

CONSTRUCT NEW FAIRWAY MOUNDS

New fairway mounds will be constructed as detailed in the golf course designs.

Once the base soil has been placed, compacted, and graded, topsoil/pond sludge mix will be placed as a top dress. Appropriate grass seed will then be placed.

REMOVE EXISTING GREEN

The existing green will no longer be utilized and will be bulldozed. Once the area has been re-graded, appropriate seed will be applied to the area to promote fast growth of the grass seed. Sod will also be used for part of the area.

RENOVATE FAIRWAY

(Sheet 12 of drawings)

The fairway approach to #6 hole will be re-graded to the golf course design requirements. Soil will be imported and placed as required to conform to the established golf course design. Once the base soil layer is placed, compacted and graded, topsoil/pond sludge mix will be placed as a top dressing. Appropriate seed will then be placed to promote fast growth.

HOLE #7

(Sheet 14 of drawings)

Approximately 50,000 CY of soil will be utilized for the various tasks associated with the #7 complex.

CONSTRUCTION OF NEW TEE BOXES

(Sheet 18 of drawings)

Three (3) new tee boxes will be constructed.

Once the base soil layer is placed, compacted, and graded for the new tee boxes, a layer of topsoil/pond dredgings mix will be placed as a top dressing. Appropriate sod and grass seed will be placed for the new tee box areas.

CONSTRUCTION OF NEW GREEN COMPLEX

(Sheet 17 of drawings)

A new green complex will be constructed as part of the Hole #7 scope of work. The green complex will include sand traps, mounding, drainage and irrigation systems, and the green itself.

Once the base soil layer is placed, compacted, and graded for the new green complex, a special layering of pea gravel, sand, and greens mix will be placed. Appropriate sod and grass seed will then be placed on all new and disturbed areas.

CONSTRUCT NEW FAIRWAY BUNKER

(Sheet 17 of drawings)

One (1) new fairway bunker will be constructed.

Once the base soil layer is placed, compacted and graded, a minimum of six (6) inches of sand will be placed in the fairway bunker. The bunker collar will be appropriately sodded and other areas disturbed by construction activities will be dressed and appropriately seeded as required.

CONSTRUCT NEW FAIRWAY MOUNDS

New fairway mounds will be constructed as detailed in the golf course designs.

Once the base soil has been placed, compacted, and graded, topsoil/pond sludge mix will be placed as a top dress. Appropriate grass seed will then be placed.

RENOVATE FAIRWAY

(Sheet 14 of drawings)

The fairway approach to #7 hole will be re-graded to the golf course design requirements. Soil will be imported and placed as required to conform to the established golf course design. Once the base soil layer is placed, compacted

and graded, topsoil/pond sludge mix will be placed as a top dressing. Appropriate seed will then be placed to promote fast growth.

HOLE #8

(Sheet 14 of drawings)

Approximately 50,000 CY of soil will be utilized for the various tasks associated with the #7 complex.

CONSTRUCTION OF NEW TEE BOX

(Sheet 18 of drawings)

One (1) new tee box will be constructed.

Once the base soil layer is placed, compacted, and graded for the new tee box, a layer of topsoil/pond dredgings mix will be placed as a top dressing. Appropriate sod and grass seed will be placed for the new tee box areas.

CONSTRUCTION OF NEW GREEN COMPLEX

(Sheet 17 of drawings)

A new green complex will be constructed as part of the Hole #7 scope of work. The green complex will include sand traps, mounding, drainage and irrigation systems, and the green itself.

Once the base soil layer is placed, compacted, and graded for the new green complex, a special layering of pea gravel, sand, and greens mix will be placed. Appropriate sod and grass seed will then be placed on all new and disturbed areas.

CONSTRUCT NEW FAIRWAY BUNKERS

(Sheet 17 of drawings)

Two (2) new fairway bunkers will be constructed.

Once the base soil layer is placed, compacted and graded, a minimum of six (6) inches of sand will be placed in the fairway bunkers. The bunker collars will be appropriately sodded and other areas disturbed by construction activities will be dressed and appropriately seeded as required.

CONSTRUCT NEW FAIRWAY MOUNDS

New fairway mounds will be constructed as detailed in the golf course designs.

Once the base soil has been placed, compacted, and graded, topsoil/pond sludge mix will be placed as a top dress. Appropriate grass seed will then be placed.

RENOVATE FAIRWAY

(Sheet 15 of drawings)

The fairway approach to #8 hole will be re-graded to the golf course design requirements. Soil will be imported and placed as required to conform to the established golf course design. Once the base soil layer is placed, compacted and graded, topsoil/pond sludge mix will be placed as a top dressing. Appropriate seed will then be placed to promote fast growth.

REMOVE EXISTING GREEN

The existing green will no longer be utilized and will be bulldozed. Once the area has been re-graded, appropriate seed will be applied to the area to promote fast growth of the grass seed. Sod will also be used for part of the area.

HOLE #9

(Sheet 16 of drawings)

Approximately 50,000 CY of soil will be utilized for the various tasks associated with the #9 complex.

CONSTRUCTION OF NEW TEE BOXES

(Sheet 18 of drawings)

Two (2) new tee boxes will be constructed.

Once the base soil layer is placed, compacted, and graded for the new tee boxes, a layer of topsoil/pond dredgings mix will be placed as a top dressing. Appropriate sod and grass seed will be placed for the new tee box area.

CONSTRUCTION OF NEW GREEN COMPLEX

(Sheet 17 of drawings)

A new green complex will be constructed as part of the Hole #9 scope of work. The green complex will include sand traps, mounding, drainage and irrigation systems, and the green itself.

Once the base soil layer is placed, compacted, and graded for the new green complex, a special layering of pea gravel, sand, and greens mix will be placed. Appropriate sod and grass seed will then be placed on all new and disturbed areas.

CONSTRUCT NEW FAIRWAY BUNKER

(Sheet 17 of drawings)

One (1) new fairway bunker will be constructed.

Once the base soil layer is placed, compacted and graded, a minimum of six (6) inches of sand will be placed in the fairway bunker. The bunker collar will be appropriately sodded and other areas disturbed by construction activities will be dressed and appropriately seeded as required.

CONSTRUCT NEW FAIRWAY MOUNDS

New fairway mounds will be constructed as detailed in the golf course designs.

Once the base soil has been placed, compacted, and graded, topsoil/pond sludge mix will be placed as a top dress. Appropriate grass seed will then be placed.

Relocate Power Line

Navy high voltage personnel will disconnect the existing overhead power line at the pole-mounted transformers and at the weatherhead riser at the #7 pumphouse.

After completion of dredging and excavation activities at the #7 irrigation pond TolTest, Inc. will install a direct burial #4 quad bundle power cable in an excavated trench from the transformer pole to the #7 pumphouse electrical meter. The cable will be covered with approximately one (1) foot of soil and then a "caution buried electrical cable" conductive foil maker tape will be place the entire length (approximately 630 feet) of the cable trench before being completely covered and dressed.

Termination of the electrical cable will be by Navy electrical personnel.

REMOVE EXISTING CART PATHS

The majority of the existing cart paths will no longer be utilized. The cart paths no longer required, as part of the golf course design will be bulldozed/scraped and the debris loaded and hauled off-site. Once these areas have been re-graded, the area will be appropriately seeded to promote fast growth of the grass seed

DREDGE AND MODIFY TWO EXISTING PONDS, CONSTRUCT TWO NEW PONDS

(Sheet 22 of drawings)

Two existing ponds near holes #2 and #7 will be drained of water. The sludge at the bottom of the ponds will be dredged. This sludge will be placed at designated locations on the golf course, within silt fences. The dredged materials will be allowed to dry until it is needed. This sludge will be used as topsoil mix for newly constructed fairway mounds, tee boxes, fairway bunkers, disturbed areas, or wherever it is needed.

Once the ponds have been dredged, they will be modified, including expansion, and the addition of a retaining wall at the pond near hole #7. New ponds will be constructed near holes #3 and #9.

A 220' long retaining wall at #7 pond will be constructed of #7-gauge steel members with a 4" x 4" steel angle top rail. 3/4" smooth steel rod ties will be placed at 6' intervals along the retaining wall. The rod ties will terminate into six (6) 1,500 lb. concrete anchors. The other ends of the rod ties will be placed thru hole cuts thru the retaining wall and then welled to the retaining wall. The backside of the retaining wall will be backfilled with pea gravel. Six (6) inch perforated plastic drain tile will be placed in the backfill with five (5) drain discharge outfalls into the #7 Pond thru openings cut thru the retaining wall approximately 18" below the top of the wall. The retaining wall will not be painted or otherwise treated as part of this project.

The pond at hole #2 will have a overflow discharge at the southwest end. The overflow height will be at lowest surrounding grade. Overflow water will flow thru a discharge pipe placed underground from the pond discharge to the FFTU ditch located to the southwest of the pond.

DRIVING RANGE BERMS

As part of this project, the existing driving range berms to the south and west of the Driving Range will be rough graded. Additional soil will be brought onto the site by others and "tailgated" on the tops of the berms in an effort to raise the berm height by at least two (2) feet. After berms are determined to be at proper elevation, the berms will be graded, top dressed with topsoil, and seeded as part of this contract.

Hole #8 to Hole #9 Service Road

The service road running from the Buckley Road parking lot to Hole #8 along the east edge of the golf course will be covered with topsoil, dressed, and seeded.

Cart Paths, Parking Areas, and Cart Staging Areas

Approximately 7,000 running feet of 8' wide cart paths will be installed. The golf course manager and the designer have established location and configuration of the cart paths. Approximately 6" of soil will be removed the entire length of the cart path by elevating pan excavator. Stone will be backfilled into the excavated cart path area and compacted. Asphalt will be placed at a thickness of 1½".

The parking areas will extend approximately 270' along the east edge and 400' along the west edge of Great Lakes Drive. This area will encompass approximately 14,000sf. The new parking areas will be excavated, backfilled with stone, and compacted. Two (2) courses of asphalt will then be placed. Drainage tile, 6" perforated, will be placed in 12" of stone along the western edge of the newly paved area on the west side of Great Lakes Drive. The tiled area will then be covered with topsoil, dressed, and seeded. The drainage tile will be extended to discharge into the FFTU drainage ditch.

The cart staging area will be constructed in the same manner as the cart paths and will encompass an area of approximately 2250sf. As part of the cart staging area placement, the cart path and staging area currently proximal to the clubhouse will be removed.

IRRIGATION SUMMARY

Piping for the irrigation system will consist of 200 psi Solvent Weld PVC.

Two (2) Acme Style 1" quick couplers will be installed at each green. One at the back left and one at the front right of the greens. Quick couplers will also be installed next to the green sprinkler and at the pressure side of each tee valve.

Rain Bird Par 16, or equally compatible, controllers will be installed to support the irrigation system.

Lagacy G-90, and G-95 Valve-in-Head Sprinklers, or equally compatible, heads will be utilized for this project. Exact numbers of heads will be field determined.

SITE RESTORATION

All areas disturbed by these construction activities will be restored to previous or better condition prior to the demobilization of field equipment from this project. Areas of address will include, but are not limited to, paved roads, temporary truck routes, material and equipment staging areas.

SCOPE ADJUSTMENTS

Agreement was reached on an adjusted scope of work which entailed some of the above detailed project components.

The pond "safety ledges" were descoped from the project. Additional new scope items were agreed upon and made part of the project:

Additional 500 LF of cart path

Additional 1250 SF of cart staging area

Addition of 6" drainage pipe along west parking area

Restoration of east service road

Demolition of cart staging area and cart path proximal to clubhouse

J. Messier

CONTRACTOR'S INVOICE

CONTRACTOR'S NAME AND ADDRESS:

ToITest, Inc.
1915 N. 12th Street
Toledo, OH 43624

For Government Use

Date Invoice Received 981117 m
Date Services Received 981031 n
Date Services Accepted 981101 n
Date Invoice Forwarded to DFAS
Signature of Certifying Officer [Signature]

TO: RESIDENT OFFICER IN CHARGE OF CONSTRUCTION
2703 SHERIDAN ROAD, SUITE 120, BLDG 1-A
GREAT LAKES, IL 60088-5600

1. BELOW IS A STATEMENT OF PERFORMANCE UNDER CONTRACT NUMBER N68950-96-D-0052
DELIVERY ORDER NUMBER 0018

THE ATTACHED PAGE(S) PROVIDE A DETAILED BREAKDOWN OF THIS STATEMENT OF PERFORMANCE.

A. TOTAL CURRENT CONTRACT VALUE FOR WORK UNDER THIS INVOICE: \$ 1,248,800.00
B. VALUE OF COMPLETED PERFORMANCE \$ 1,162,700.00
C. LESS: TOTAL OF ALL PRIOR INVOICES \$ 1,125,800.00
D. AMOUNT OF THIS INVOICE \$ 36,900.00

NAME AND TITLE: Gregory T. Elgin, Federal Contract Administrator

SIGNATURE AND DATE: [Signature] 10/31/98

ENDORSEMENT

FROM: RESIDENT OFFICER IN CHARGE OF CONSTRUCTION
2703 SHERIDAN ROAD, SUITE 120, BLDG 1-A
GREAT LAKES, IL 60088-5600

TO: DFAS - OAKLAND, CA

RECEIVED
98 NOV 17 AM 10:08
EFA MIDWEST

Date Invoice Received 981117 [Signature]
Date Materials/Services Received 981031 n
Date Materials/Services Accepted 981101 n
Date Invoice Forwarded to DFAS
Signature of Certifying Officer [Signature]

1. PAYMENT IS RECOMMENDED AS FOLLOWS:

A. VALUE OF COMPLETED PERFORMANCE TO OCT 31, 1998
B. LESS:
RETENTION THIS INVOICE
CUMULATIVE RETENTIONS FROM PRIOR INVOICES
CUMULATIVE PAYMENTS FROM PRIOR INVOICES
C. RECOMMENDED AMOUNT FOR 6th PAYMENT OF D.O. # 0018

\$ 1,162,700.00
\$ - 0 -
\$ - 0 -
\$ 1,125,800.00
\$ 36,900.00

2. TECHNICAL REPRESENTATIVE'S VERIFICATION OF WORK COMPLETED

NAME AND TITLE: JP MESSIER, COM, ENVIRONMENTAL ENGINEER, EPA MW MISTK

SIGNATURE AND DATE: [Signature] 11/19/98

3. THE CONTRACTING OFFICER CERTIFIES THAT THE INVOICE IS CORRECT AND PROPER FOR PAYMENT, FUNDS CERTIFIED FOR PAYMENT ARE FULLY OBLIGATED FOR THIS DISBURSEMENT, WILL NOT BE CANCELLED, AND ARE CORRECTLY REFLECTED ON THE PROCUREMENT DOCUMENT.

NAME AND TITLE: Janis E. Kaiser, Contract Specialist

SIGNATURE AND DATE: [Signature] 11/24/98

ACCOUNTING DATA

DD/DO

LINE OF ACCOUNTING

AMOUNT

9A 97X4930 NE19 000 77777 0 065113 2F 000000 504/523921 \$ 36,900.00

188556
AMENDMENT 0002
PAGE 106 OF 141

TO BE COMPLETED BY THE CONTRACTOR

TO BE COMPLETED BY THE GOVERNMENT

EL. ORDER OR MOD. NUMBER	DESCRIPTION	CONTRACTED AMOUNT	% COM- PLETE	COMPLETED VALUE	VERIFIED CONTRACTED AMOUNT	% COM- PLETE*	COMPLETED VALUE†	LESS CUMULATIVE PAYMENTS FROM ALL PRIOR INVOICES	TOTAL PAYMENT FOR THIS INVOICE
2018	Work Request No. _____ Title: PAYMENT SCHEDULE 1ST - 282,900.00 2ND - 233,700.00 3RD - 420,000.00 4TH - 152,300.00 5TH - 36,900.00 6TH - 36,900.00	1,248,800.00	93	1,162,700.00	1,248,800.00	93	1,162,700.00	1,125,800.00	36,900.00
	Work Request No. _____ Title: _____ 								
	Work Request No. _____ Title: _____ 								
TOTALS THIS PAGE		1,248,800.00	93	1,162,700.00	1,248,800.00	93	1,162,700.00	1,125,800.00	36,900.00

Complete only if verified amounts are different from the contractor's represented amounts.

Johnnie, COTR, ENVIRONMENTAL ENGINEERING, EPA MW N45TB 11/19/88